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STRUCTURE FILE UPDATES: 25 OCT 2006 HIGHEST RN 911284-77-0
DICTIONARY FILE UPDATES: 25 OCT 2006 HIGHEST RN 911284-77-0

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=> FILE HCAPLU

FILE 'HCAPLUS' ENTERED AT 15:33:48 ON 26 OCT 2006
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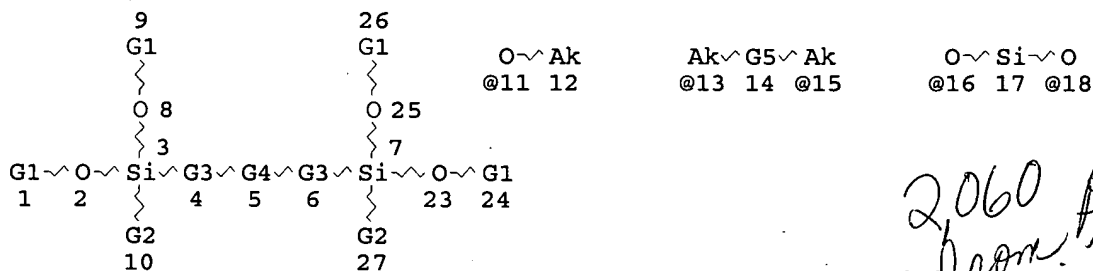
FILE COVERS 1907 - 26 Oct 2006 VOL 145 ISS 18
FILE LAST UPDATED: 25 Oct 2006 (20061025/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
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=> D QUE

L6 STR



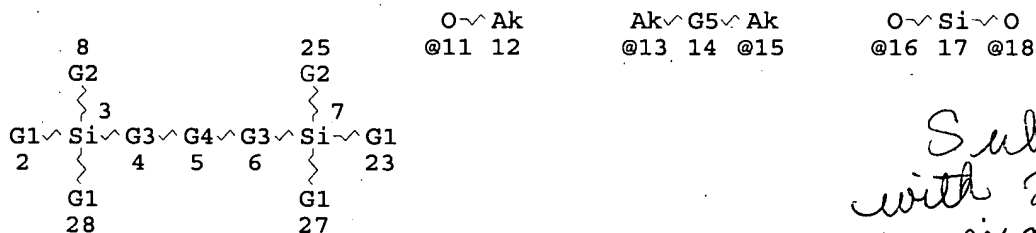
2060 polymers
from this query
covering formula
1a

Ak~Cy Ak~Q
@19 @20 @21 @22

VAR G1=AK/CB
VAR G2=AK/CB/11
REP G3=(0-20) A
VAR G4=AK/CY/21-4 22-6/19-4 20-6/16-4 18-6/13-4 15-6
VAR G5=CB/Q
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE
L8 SCR 2043
L10 2060 SEA FILE=REGISTRY SSS FUL L6 AND L8
L11 STR



Subset search
with 2nd formula
covering formula
1b

Ak~Cy Ak~Q
@19 @20 @21 @22

VAR G1=AK/CB
VAR G2=AK/CB/11
REP G3=(0-20) A
VAR G4=AK/CY/21-4 22-6/19-4 20-6/16-4 18-6/13-4 15-6
VAR G5=CB/Q
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED

129 polymers
with both

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L16 129 SEA FILE=REGISTRY SUB=L10 SSS FUL L11
L17 144 SEA FILE=HCAPLUS ABB=ON L16
L19 15 SEA FILE=HCAPLUS ABB=ON L17 AND MOISTURE?(3A) CUR?
L22 83 SEA FILE=REGISTRY ABB=ON L16 AND NC>=2
L23 67 SEA FILE=REGISTRY ABB=ON L22 AND 4-40/SI
L24 71 SEA FILE=HCAPLUS ABB=ON L22
L25 55 SEA FILE=HCAPLUS ABB=ON L23
L27 5 SEA FILE=HCAPLUS ABB=ON (L24 OR L25) AND MOISTURE?(3A) CUR?
L28 15 SEA FILE=HCAPLUS ABB=ON L19 OR L27
L29 1745 SEA FILE=HCAPLUS ABB=ON L10
L30 13 SEA FILE=HCAPLUS ABB=ON L29 AND ?SILYL?(3A) CAP?
L31 1 SEA FILE=HCAPLUS ABB=ON L30 AND MOISTURE?(3A) CUR?
L32 0 SEA FILE=HCAPLUS ABB=ON (L24 OR L25) AND ?SILYL?(3A) CAP?
L33 5 SEA FILE=HCAPLUS ABB=ON L30 AND (COMPOSITION? OR COMPNS)
L34 20 SEA FILE=HCAPLUS ABB=ON L28 OR L31 OR L32 OR L33

=> D L34 BIB ABS IND HITSTR 1-20

L34 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2006:768797 HCAPLUS

DN 145:189850

TI Room temperature **moisture-curable** organopolysiloxane
compositions with color changing upon moisture crosslinking and good
storage stability and resin adhesion

IN Araki, Tadashi

PA Shin-Etsu Chemical Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 7pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2006173126	A1	20060803	US 2006-344473	20060201
	JP 2006213780	A2	20060817	JP 2005-25885	20050202
PRAI	JP 2005-25885	A	20050202		

AB An RTV organopolysiloxane composition comprises (a) an organopolysiloxane having the formula: HO(R₂SiO)_xH wherein R is a monovalent hydrocarbon group and x is an ≥10 integer, (b) an alkoxysilane compound having on the average ≥2 silicon-bonded hydrolyzable groups and/or a partial hydrolyzate, (c) organoxy titanium, and (d) an organic compound having ≥1 hydroxyl group bonded to a benzene ring. Thus, trimethylsilylethyl-terminated polydimethylsiloxane 100, fumed silica surface-treated with dimethyldichlorosilane 20, vinyltrimethoxysilane 7, tetra(2-ethylhexyl)titanate and 2,6-di-tert-butyl-p-cresol 1 part were mixed and **moisture-cured** at room temperature to give a sample showing color changing from pale yellow to colorless, hardness 48, elongation at break 560% and tensile strength 3.6 Mpa.

INCL 524588000; 524863000

CC 37-6 (Plastics Manufacture and Processing)

ST polydimethylsiloxane trimethylsilylethyl terminated vinyltrimethoxysilane tetraethylhexyltitanate butylcresol compn; Room temp **moisture curable** color changing polysiloxane compn

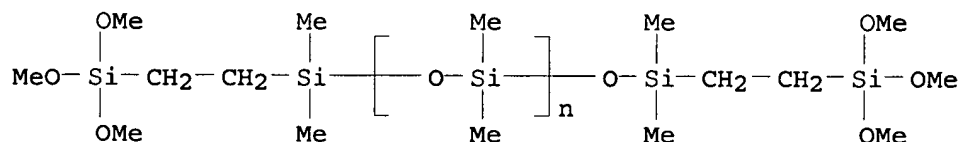
IT Titanates

RL: MOA (Modifier or additive use); USES (Uses)

(alkoxides, coloring agent; room temperature **moisture-**

- curable organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT Hydroquinones
Phenols, uses
RL: MOA (Modifier or additive use); USES (Uses)
(coloring agent; room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT Fillers
(room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT Polysiloxanes, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT Metal alkoxides
RL: MOA (Modifier or additive use); USES (Uses)
(titanium, coloring agent; room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT 79-74-3, Antage DAH 85-60-9, Antage W300 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses 1070-10-6, Tetra(2-ethylhexyl)titanate 1319-77-3, Cresol
RL: MOA (Modifier or additive use); USES (Uses)
(coloring agent; room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT 2768-02-7, Vinyltrimethoxysilane
RL: CPS (Chemical process); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(crosslinker; room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT 60842-32-2, R972
RL: MOA (Modifier or additive use); USES (Uses)
(reactive filler; room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT 160480-15-9P
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- IT 160480-15-9P
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(room temperature **moisture-curable** organopolysiloxane compns. with color changing upon moisture crosslinking and good storage stability and resin adhesion)
- RN 160480-15-9 HCAPLUS
- CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(trimethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-

(trimethoxysilyl)ethyl)silyl]oxy]- (9CI) (CA INDEX NAME)



L34 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:33084 HCAPLUS

DN 142:115113

TI Crosslinkable polysiloxane-urea copolymers.

IN Selbertinger, Ernst; Ziche, Wolfgang

PA Wacker-Chemie GmbH, Germany

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1496079	A1	20050112	EP 2004-15523	20040701
	EP 1496079	B1	20050706		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	US 2005009985	A1	20050113	US 2004-886184	20040707
	JP 2005029795	A2	20050203	JP 2004-202236	20040708
	CN 1576298	A	20050209	CN 2004-10063563	20040712
PRAI	DE 2003-10331287	A	20030710		

AB Crosslinkable polysiloxane-polyurea block copolymers [prepared by reacting of amino-terminated polysiloxanes with di- or/and (blocked) polyisocyanates] with improved mech. properties are used for two-component **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials. Thus, mixing 20 weight parts of an aminopropyl-terminated polydimethylsiloxane having mol. weight 2890 and viscosity 50 mPa s, 10 weight parts of an aminopropyldimethoxy-terminated polydimethylsiloxane having mol. weight 2950 and viscosity 60 mPa s and 3 weight parts of HMDI in 40 weight parts of THF 2 h at 50°, casting into PTFE-form and removing a solvent gave a 1 mm film exhibiting a hardness (Shore A) 35 (after 1 day crosslinking at 25° and 0 % humidity) and 43 (after 1 day crosslinking at 25° and 50 % humidity).

IC ICM C08G077-458

ICS C08G018-61; C09D183-10; C09J183-10; C08L083-10

CC 37-6 (Plastics Manufacture and Processing)

ST crosslinkable polysiloxane polyurea block copolymer **moisture curable** adhesive; crosslinkable sealing compn packaging material polysiloxane polyurea block copolymer; aminopropylterminated polydimethylsiloxane aminopropyldimethoxyterminated polydimethylsiloxane HMDI polyurea block copolymer manuf

IT Packaging materials

Sealing compositions

(crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)

IT Molded plastics, uses

RL: TEM (Technical or engineered material use); USES (Uses)

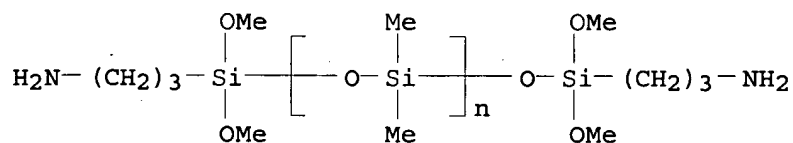
- (crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT Adhesives
(**moisture-curable**; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT Polysiloxanes, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyurea-, block, crosslinkable composition; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT Polyureas
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(siloxane-, block, crosslinkable composition; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT 31900-57-9DP, hydroxy-terminated, reaction products with aminopropyltrimethoxysilane
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(assumed monomer, crosslinkable composition precursor; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT 13822-56-5DP, Aminopropyltrimethoxysilane, reaction products with Polydimethylsiloxane
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(crosslinkable composition precursor; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT 31692-79-2, Polydimethylsiloxane, hydroxy-terminated
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinkable composition precursor; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT 820958-53-0P 820958-54-1P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinkable composition; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- IT 820958-53-0P 820958-54-1P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinkable composition; crosslinkable polysiloxane-polyurea block copolymers for **moisture-curable** adhesives, crosslinkable sealing compns., molded plastics and packaging materials)
- RN 820958-53-0 HCAPLUS
- CN Poly[oxy(dimethylsilylene)], α -[[(3-aminopropyl)dimethoxysilyl]- ω -[[(3-aminopropyl)dimethoxysilyl]oxy]-, polymer with α -[[(3-aminopropyl)dimethylsilyl]- ω -[[(3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

CRN 159791-72-7

CMF (C2 H6 O Si)_n C10 H28 N2 O5 Si2

CCI PMS

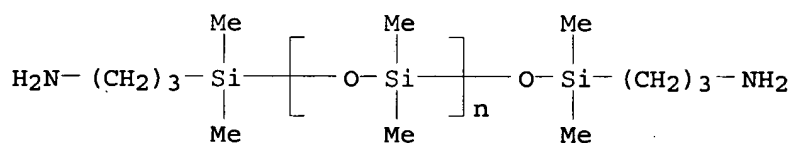


CM 2

CRN 97917-34-5

CMF (C2 H6 O Si)_n C10 H28 N2 O Si2

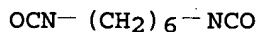
CCI PMS



CM 3

CRN 822-06-0

CMF C8 H12 N2 O2



RN 820958-54-1 HCAPLUS

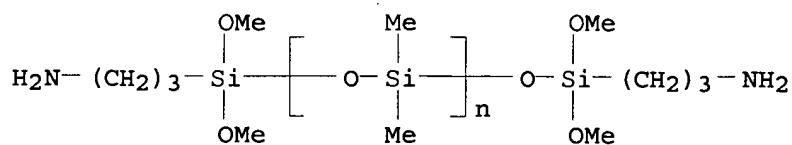
CN Poly[oxy(dimethylsilylene)], α-[(3-aminopropyl)dimethoxysilyl]-ω-[[[(3-aminopropyl)dimethoxysilyl]oxy]-, polymer with α-[(3-aminopropyl)dimethylsilyl]-ω-[[[(3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 159791-72-7

CMF (C2 H6 O Si)_n C10 H28 N2 O5 Si2

CCI PMS

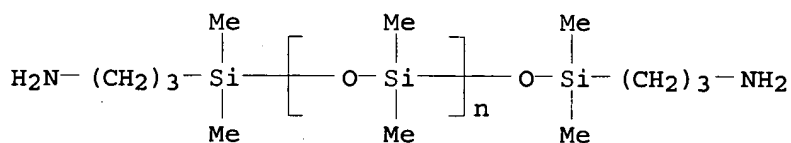


CM 2

CRN 97917-34-5

CMF (C2 H6 O Si)_n C10 H28 N2 O Si2

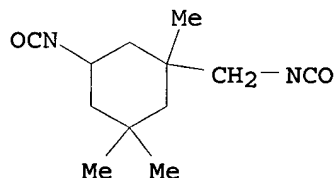
CCI PMS



CM 3

CRN 4098-71-9

CMF C12 H18 N2 O2



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:371026 HCAPLUS

DN 140:392024

TI Continuous process for producing **moisture-curable**
hot-melt adhesive compositions

IN Be, Anh; Cai, Yuhao; Lower, Loren

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004037941	A2	20040506	WO 2003-US25951	20030819
	WO 2004037941	A3	20040701		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2503137 AA 20040506 CA 2003-2503137 20030819
AU 2003258290 A1 20040513 AU 2003-258290 20030819
EP 1554356 A2 20050720 EP 2003-809507 20030819

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006503958 T2 20060202 JP 2004-546706 20030819

PRAI US 2002-420575P P 20021022
WO 2003-US25951 W 20030819

AB The method comprises feeding a melted mixture of an organopolysiloxane (e.g., trimethoxysilylethyldimethylsilyl-terminated polydimethylsiloxane), silicone resin (e.g., trimethylsiloxy- and dimethylvinylsiloxy-terminated methylsilanetriol-silicic acid copolymer), silane crosslinker (e.g., isobutyltrimethoxysilane), catalyst (e.g., tetra(tert-butyl)titanium) and solvent into an extruder and removing the volatiles. By using a continuous process it is possible to control the nonvolatile content and produce a consistent product. Upon exposure to moisture the hot melt adhesive composition cures resulting in adhesion between two substrates.

IC ICM C09J183-04

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 58, 76

ST polysiloxane hot melt adhesive continuous prodn; **moisture curable** hot melt adhesive

IT Crosslinking agents
Crosslinking catalysts
(continuous process for producing **moisture-curable** hot-melt adhesive compns.)

IT Polysiloxanes, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(continuous process for producing **moisture-curable** hot-melt adhesive compns.)

IT Construction materials
Electric apparatus
Laminated materials
(continuous process for producing **moisture-curable** hot-melt adhesive compns. for)

IT Adhesives
(hot-melt, **moisture-curable**; continuous process for producing **moisture-curable** hot-melt adhesive compns.)

IT 31692-79-2, Silanol-terminated polydimethylsiloxane 31900-57-9D, Dimethylsilanediol homopolymer, trimethoxysilylethyldimethylsilyl-terminated 160313-14-4 160480-15-9 364602-57-3D, trimethylsiloxy- and dimethylvinylsiloxy-terminated 364602-57-3D, trimethylsiloxy-terminated
RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(compns. containing; continuous process for producing **moisture-curable** hot-melt adhesive compns.)

IT 77-58-7, Dibutyltin dilaurate 3068-89-1, Tetraethyl titanium 27858-32-8, Diisopropoxy bis(ethylacetoacetato) titanium 113361-32-3, Tetra(tert-butyl)titanium

RL: CAT (Catalyst use); USES (Uses)

(continuous process for producing **moisture-curable**
hot-melt adhesive compns.)

IT 31900-57-9D, Dimethylsilanediol homopolymer, silanol-terminated

RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or
reagent); USES (Uses)

(continuous process for producing **moisture-curable**
hot-melt adhesive compns.)

IT 18395-30-7, Isobutyltrimethoxysilane

RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or
reagent); USES (Uses)

(crosslinking agent, compns. containing; continuous process for producing
moisture-curable hot-melt adhesive compns.)

IT 2224-33-1, Vinyltri(methylethylketoxime)silane 22984-54-9,
Methyltri(methylethylketoxime)silane

RL: RCT (Reactant); RACT (Reactant or reagent)

(crosslinking agent, compns. containing; continuous process for producing
moisture-curable hot-melt adhesive compns.)

IT 160313-14-4 160480-15-9

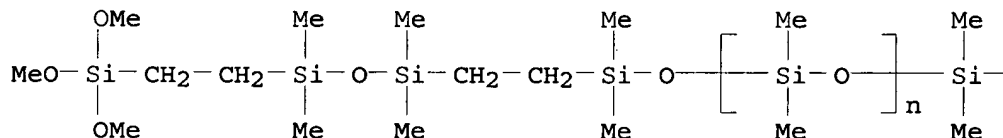
RL: POF (Polymer in formulation); RCT (Reactant); RACT (Reactant or
reagent); USES (Uses)

(compns. containing; continuous process for producing **moisture-**
curable hot-melt adhesive compns.)

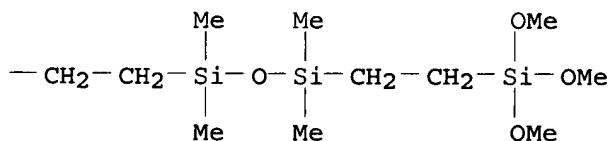
RN 160313-14-4 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-
(trimethoxysilyl)ethyl]disiloxanyl)ethyl]silyl]- ω -[[dimethyl[2-
[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl)ethyl]silyl]o
xy]- (9CI) (CA INDEX NAME)

PAGE 1-A

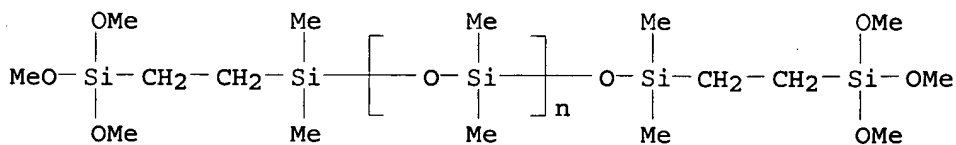


PAGE 1-B



RN 160480-15-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-
(trimethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-
(trimethoxysilyl)ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)

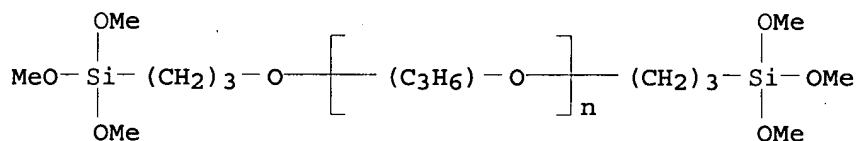


L34 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:837171 HCAPLUS
 DN 139:324548
 TI Curable foam elastomeric **compositions** and foam and means of gap
 filling and vibration damping
 IN Lim, Thomas Fay-Oy; Lionberger, James E.; Nakos, Steven T.
 PA Henkel Loctite Corporation, USA; Henkel Corporation
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

applicant

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003087204	A1	20031023	WO 2003-US8802	20030324
	WO 2003087204	C2	20040226		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2003220460	A1	20031027	AU 2003-220460	20030324
	US 2006014844	A1	20060119	US 2005-510458	20050815
PRAI	US 2002-370520P	P	20020405		
	WO 2003-US8802	W	20030324		
AB	A 2-part curable foaming composition comprises (A) component (i) an alkoxysilyl-capped prepolymer and (ii) a polyhydrogen siloxane (iii) optionally a catalyst which accelerates both foaming and crosslinking through the alkoxysilyl groups and (B) component (i) a N-containing compound having an active H, (ii) H ₂ O, and (iii) optionally a catalyst which accelerates both foaming and crosslinking through the alkoxysilyl groups; provided that ≥ 1 of the parts contain a catalyst and where after mixing together A and B a cured elastomeric foam is formed. A foam resulted from mixing a composition of trimethoxysilyl-capped polypropylene oxide 38.0, Niax L-1602 28.0, CaCO ₃ 31.6, Me H siloxane 1.2, TINUVIN 765 0.4, TINUVIN 327 0.8 parts with Bu benzyl phthalate 25.0, CaCO ₃ 72.2, C black 0.6, dibutylamine 0.6, water 0.6, and DBU 1.0 parts.				
IC	ICM C08J009-02 ICS C08J009-12; C08G077-00				
CC	39-9 (Synthetic Elastomers and Natural Rubber)				
ST	polyoxyalkylene polysiloxane hydrogen liberating foam elastic				
IT	Vibration dampers (H gas-liberating foaming elastomeric compns. of)				
IT	Plastic foams RL: TEM (Technical or engineered material use); USES (Uses) (closed cell; H gas-liberating foaming elastomeric compns.)				
IT	Polysiloxanes, uses RL: CAT (Catalyst use); USES (Uses) (polyoxyalkylene-; H gas-liberating foaming elastomeric compns. of)				
IT	Polyoxyalkylenes, uses RL: CAT (Catalyst use); USES (Uses) (polysiloxane-; H gas-liberating foaming elastomeric compns.)				

of)
 IT 100-76-5, Quinuclidine 111-92-2, Dibutylamine 280-57-9,
 1,4-Diazabicyclo[2.2.2]octane 6674-22-2
 RL: CAT (Catalyst use); USES (Uses)
 (H gas-liberating foaming elastomeric **compns.** of)
 IT 9004-73-3, Poly[oxy(methylsilylene)] 91630-31-8,
 Trimethoxysilylpropyl-terminated polypropylene glycol
 RL: POF (Polymer in formulation); TEM (Technical or engineered material
 use); USES (Uses)
 (H gas-liberating foaming elastomeric **compns.** of)
 IT 91630-31-8, Trimethoxysilylpropyl-terminated polypropylene glycol
 RL: POF (Polymer in formulation); TEM (Technical or engineered material
 use); USES (Uses)
 (H gas-liberating foaming elastomeric **compns.** of)
 RN 91630-31-8 HCAPLUS
 CN Poly[oxy(methyl-1,2-ethanediyl)], α -[3-(trimethoxysilyl)propyl]-
 ω -[3-(trimethoxysilyl)propoxy]- (9CI) (CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:927504 HCAPLUS
 DN 138:14762
 TI Room temperature-curable silicone rubber **compositions** as
 sealants with improved bonding durability and long outdoor service life
 IN Yoshitake, Makoto; Okabe, Kazutoshi; Harimoto, Yukinari
 PA Dow Corning Toray Silicone Co., Ltd., Japan; Dow Corning Asia Ltd.
 SO PCT Int. Appl., 29 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002096993	A1	20021205	WO 2002-JP5247	20020529
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2002356616	A2	20021213	JP 2001-161704	20010530
EP 1392773	A1	20040303	EP 2002-730770	20020529
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
CN 1513033	A	20040714	CN 2002-810846	20020529
JP 2003049072	A2	20030221	JP 2002-156942	20020530
US 2004176528	A1	20040909	US 2003-477156	20031107

PRAI JP 2001-161703 A 20010530
JP 2001-161704 A 20010530
WO 2002-JP5247 W 20020529

AB The **compns.** comprise: (A) 100 parts a polydiorganosiloxane mixture, (B) 1-25 parts one or more alkoxysilanes, having formula $R_5bSi(OR_6)_4-b$ (R_5, R_6 =monovalent hydrocarbyl, $b=0$ or 1), or partial hydrolysis and condensation products thereof, and (C) 0.5-10 parts an organotitanium compound, wherein A comprises: (A-1) 20-95% a polydiorganosiloxane with both mol. terminals **capped** with **dialkoxysilyls** or **trialkoxysilyls**, (A-2) 5-80% a polydiorganosiloxane with a mol. terminal **capped** with **dialkoxysilyl** or **trialkoxysilyl** and the other mol. terminal **capped** with **monoalkoxysilyl**, **hydrosilyl**, **trialkylsilyl** or **trialkoxyalkylsilyl**, and (A-3) 0-30% a polydiorganosiloxane having both mol. terminals **capped** with **monoalkoxysilyl**, **hydrosilyl**, **trialkylsilyl** or **trialkoxyalkylsilyl**. Thus, reacting 500 g hydrosilyl-terminated polydimethylsiloxane with 2.88 g vinyltriethoxysilane in the presence of platinum complex hydrosilylation catalyst gave an A, 100 parts of which was mixed with 12 parts fumed silica (surface-treated), 4.5 g methyltrimethoxysilane and 3 parts tetra(tert-butoxy)titanium, 0.5 parts and other additives such as adhesion promotor and thickening agent to give a title **composition**

IC ICM C08L083-04

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39

ST polydimethylsiloxane vinyltriethoxysilane hydrosilylation product silicone rubber sealant **compn**; alkoxysilane crosslinking agent room temp curable silicone rubber **compn**

IT Silicone rubber, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(di-Me, (alkoxysilyl)-terminated; room temperature-curable silicone rubber sealant **compns.** with improved bonding durability and long outdoor service life)

IT Silicone rubber, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(di-Me, Me hydrogen; room temperature-curable silicone rubber sealant **compns.** with improved bonding durability and long outdoor service life)

IT Polysiloxanes, uses

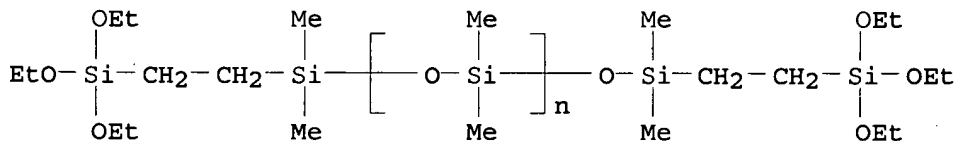
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(di-Me, alkoxy-containing; room temperature-curable silicone rubber sealant **compns.** with improved bonding durability and long outdoor service life)

IT Polysiloxanes, uses

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(di-Me, hydrogen-terminated; room temperature-curable silicone rubber

sealant

- compns.** with improved bonding durability and long outdoor service life)
- IT Sealing **compositions**
(room-temperature-curable; silicone rubber sealant **compns.** with improved bonding durability and long outdoor service life)
- IT 1185-55-3, Methyltrimethoxysilane
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agent; in room temperature-curable silicone rubber sealant **compns.** with improved bonding durability and long outdoor service life)
- IT 3087-39-6, Tetra(tert-butoxy)titanium
RL: CAT (Catalyst use); USES (Uses)
(curing catalyst; in room temperature-curable silicone rubber sealant **compns.** with improved bonding durability and long outdoor service life)
- IT 31900-57-9DP, Dimethylsilanediol homopolymer, alkoxy-silyl or dimethylhydrogensilyl-terminated 118529-50-3P 156048-35-ODP, Dimethylsilanediol-methylphenylsilanediol copolymer, trialkoxy-silyl- or alkyl-dialkoxysilyl-terminated **210548-76-8P** 477587-82-9P 477587-83-0P 477587-85-2P 477587-86-3P 477587-87-4P 477587-88-5P
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(preps. of polydimethylsiloxane with varying terminals for room temperature-curable silicone rubber sealant **compns.**)
- IT 78-08-0, Vinyltriethoxysilane 1438-79-5, 1,1,1,3,3-Pentamethyl-3-vinyl-disiloxane 5356-83-2, Dimethylvinylethoxysilane 5356-84-3, Vinyltris(trimethylsiloxy)silane 16753-62-1, Vinylmethyldimethoxysilane 115254-29-0, Hydride-terminated poly(dimethylsiloxane) 156048-35-OD, Dimethylsilanediol-methylphenylsilanediol copolymer, hydride-terminated
RL: RCT (Reactant); RACT (Reactant or reagent)
(preps. of polydimethylsiloxane with varying terminals for room temperature-curable silicone rubber sealant **compns.**)
- IT **210548-76-8P**
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(preps. of polydimethylsiloxane with varying terminals for room temperature-curable silicone rubber sealant **compns.**)
- RN 210548-76-8 HCAPLUS
- CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:918272 HCAPLUS
DN 138:15895

TI Perfluoropolyether-modified silanes, surface treatment agents containing the same, and their cured layers
 IN Yamaguchi, Koichi
 PA Shin-Etsu Chemical Industry Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002348370	A2	20021204	JP 2001-157791	20010525
PRAI	JP 2001-157791		20010525		

AB The surface treatment agents which give water- and oil-repellent, mold-releasable, and antisoiling cured layers on window glasses, etc., contain $F(C_xF_{2-x}O)_mCyF_2yQSiR_{13-a}(OSiCH_2CH_2SiAbR_{23-b})_a$ (I; Q = divalent organic group; A = hydrolyzable group; R1, R2 = monovalent organic group; a, b = 2, 3; m = 6-50 integer; x, y = 1-3 integer) and/or hydrolyzate/polycondensates of I. Thus, 3.0 g $F[CF(CF_3)CF_2O]_{24}CF(CF_3)CONHC_3H_6SiMe_2OSi[OSiMe_2C_2H_4Si(OMe)_3]_3$ in 97.0 g nonafluorobutyl ether (HFE 7200) was applied onto a glass plate and cured at 25° and humidity 70% to give a cured layer showing good repellency of water and oleic acid, mold releasability, and hydrolyzation resistance.

IC ICM C08G065-336
 ICS C09D171-00; C09D183-12; C09D183-14

CC 57-1 (Ceramics)

Section cross-reference(s): 73

ST perfluoropolyether silane coupling agent hydrolyzable; **moisture curable** perfluoropolyether silane surface treatment agent; glass water repellent coating perfluoropolyether silane; antisoiling coating perfluoropolyether silane glass treatment

IT Silanes

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(alkoxy, perfluoropolyether-; perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for antisoiling cured layers)

IT Coating materials

(antisoiling; preparation of perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for antisoiling cured layers)

IT Coating materials

(oil-resistant; preparation of perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for antisoiling cured layers)

IT Antireflective films

(on polarizing filters; preparation of perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for antisoiling cured top layers on)

IT Coupling agents

(perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for antisoiling cured layers)

IT Plate glass

RL: NUU (Other use, unclassified); USES (Uses)

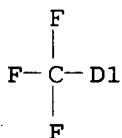
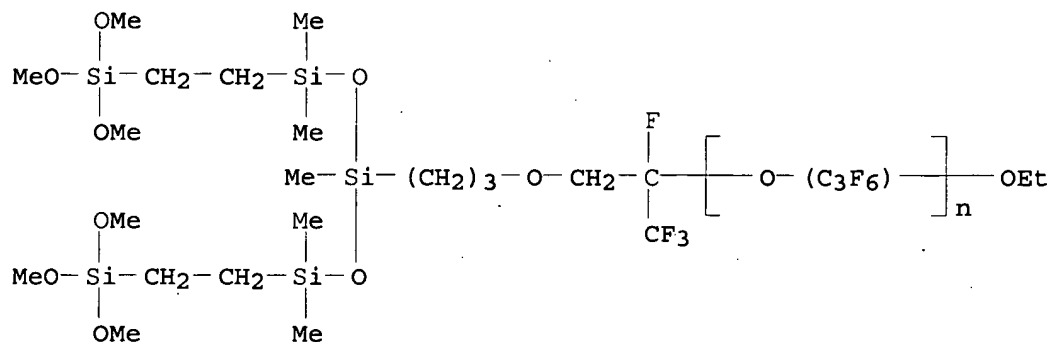
(substrate; perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for antisoiling cured layers)

IT Coating materials

(water-resistant; preparation of perfluoropolyether-modified alkoxysilanes for **moisture-curable** surface treatment agents for

- antisoiling cured layers)
- IT Polarizers
(with antireflection films; preparation of perfluoropolyether-modified alkoxy silanes for **moisture-curable** surface treatment agents for antisoiling cured top layers on)
- IT 2768-02-7, Vinyltrimethoxysilane 477558-87-5 477558-89-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of perfluoropolyether-modified alkoxy silanes for **moisture-curable** surface treatment agents for antisoiling cured layers)
- IT 477558-90-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of perfluoropolyether-modified alkoxy silanes for **moisture-curable** surface treatment agents for antisoiling cured layers)
- IT 477558-88-6
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(preparation of perfluoropolyether-modified alkoxy silanes for **moisture-curable** surface treatment agents for antisoiling cured layers)
- IT 477558-90-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of perfluoropolyether-modified alkoxy silanes for **moisture-curable** surface treatment agents for antisoiling cured layers)
- RN 477558-90-0 HCAPLUS
- CN Poly[oxy(trifluoro(trifluoromethyl)-1,2-ethanediyl)], α -[7-[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-1-fluoro-12,12-dimethoxy-7,9,9-trimethyl-1-(trifluoromethyl)-3,8,13-trioxa-7,9,12-trisilatetradecan-1-yl]- ω -[tetrafluoro(trifluoromethyl)ethoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

4 (D1-F)

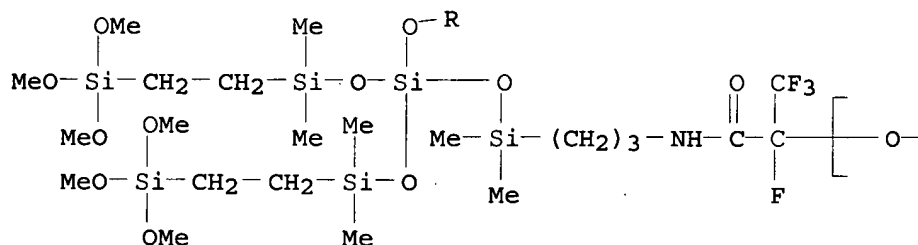
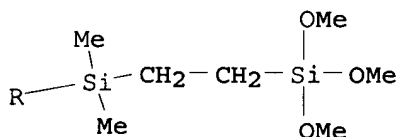
IT 477558-88-6

RL: RCT (Reactant); TEM (Technical or engineered material use); RACT
(Reactant or reagent); USES (Uses)
(preparation of perfluoropolyether-modified alkoxy silanes for
moisture-curable surface treatment agents for
antisoiling cured layers)

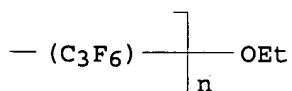
RN 477558-88-6 HCAPLUS

CN Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], α -[1-[[[3-[3,3-bis[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-1,1,5,5-tetramethyl-5-[2-(trimethoxysilyl)ethyl]trisiloxanyl]propyl]amino]carbonyl]-1,2,2,2-tetrafluoroethyl]- ω -[tetrafluoro(trifluoromethyl)ethoxy]- (9CI) (CA INDEX NAME)

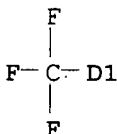
PAGE 1-A



PAGE 1-B



PAGE 2-A



4 (D1-F)

L34 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:265016 HCAPLUS

DN 136:295549

TI **Moisture-curable resin compositions** giving
cured products with good weather resistance

IN Tanaka, Hideaki; Watabe, Takashi; Kashiwame, Kiyoteru

PA Asahi Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002105342	A2	20020410	JP 2000-297106	20000928
PRAI	JP 2000-297106		20000928		

AB The **compns.** useful for sealing materials, contain (A) 100 parts polymers bearing hydrolyzable silyl groups and (B) 0.01-20 parts polypentaerythritol caprolactone adduct (meth)acrylate esters. Thus, preparing a polyoxypropylene diol with number-average mol. weight (Mn) 20,000 and Mw/Mn

1.4, allylating, and hydrosilylating the resulting allylated polymer with dimethoxymethylsilane gave a compound A. Mixing 100 parts the A with Kayarad DPCA 20 (caprolactone-modified dipentaerythritol hexaacrylate) 5, Neolite SPT (treated CaCO₃) 120, Whiton SB (high-d. CaCO₃) 20, TiO₂ 10, DOP 30, epoxy type plasticizer 20, phenyltrimethoxysilane 1, Tinuvin 327 (antioxidant) 1, Irganox 1010 (antioxidant) 1, ADK Stab LA62 (hindered amine) 1, Sn 2-ethylhexanoate 3, and laurylamine 1 part gave a **composition**, molding the resulting **composition** into a sheet, exposing to air at 20° for 1 wk. and maturing at 50° and 65% relative humidity for 1 wk. gave a cured sheet with good weather resistance.

IC ICM C08L101-10

ICS C08K005-103

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 42

ST weather resistance **moisture curable**

polypentaerythritol caprolactone adduct polyacrylate; hydrolyzable **silylate** polyoxypropylene polypentaerythritol **caprolactone** adduct **moisture curable**

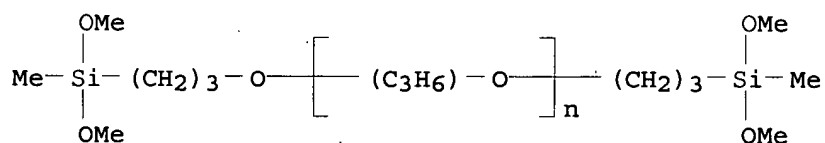
IT Polyoxyalkylenes, properties

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(derivs.; **moisture-curable resin compns.**

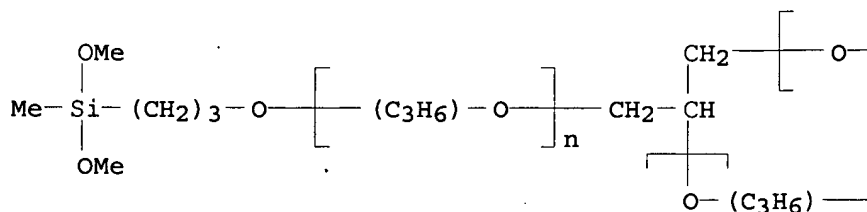
giving cured products with good weather resistance)

- IT Sealing compositions
(moisture-curable resin compns. giving cured products with good weather resistance)
- IT 2996-92-1, Phenyltrimethoxysilane
RL: MOA (Modifier or additive use); USES (Uses)
(curing agents; moisture-curable resin compns. giving cured products with good weather resistance)
- IT 75009-88-0P 151865-59-7P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(moisture-curable resin compns. giving cured products with good weather resistance)
- IT 37273-13-5P, Polypropylene glycol diallyl ether 120246-42-6P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(moisture-curable resin compns. giving cured products with good weather resistance)
- IT 93294-99-6, Kayarad DPCA 120 93365-34-5, Kayarad DPCA 20
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(moisture-curable resin compns. giving cured products with good weather resistance)
- IT 16881-77-9, Dimethoxymethylsilane
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; moisture-curable resin compns. giving cured products with good weather resistance)
- IT 75009-88-0P 151865-59-7P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(moisture-curable resin compns. giving cured products with good weather resistance)
- RN 75009-88-0 HCAPLUS
- CN Poly[oxy(methyl-1,2-ethanediyl)], α -[3-(dimethoxymethylsilyl)propyl]- ω -[3-(dimethoxymethylsilyl)propoxy]- (9CI) (CA INDEX NAME)

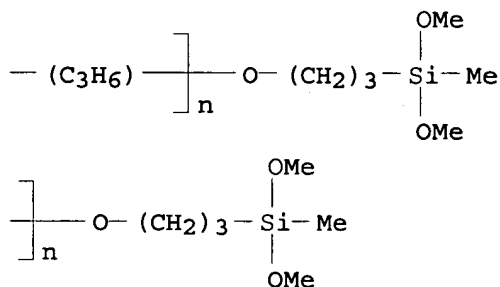


- RN 151865-59-7 HCAPLUS
- CN Poly[oxy(methyl-1,2-ethanediyl)], α,α',α'' -1,2,3-propanetriyltris[ω -[3-(dimethoxymethylsilyl)propoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L34 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:507798 HCAPLUS

DN 135:108137

TI Organosiloxane compositions for sealants and catalysts

IN Tachikawa, Mamoru; Saruyama, Toshio; Kazutoshi, Okabe; Adachi, Hiroshi; De Buyl, Francois; Springael, Sabine; Zhang, Luo Cheng

PA Dow Corning SA, Belg.; Dow Corning Asia Limited; Dow Corning Toray Silicone Co., Ltd.

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001049789	A2	20010712	WO 2001-EP70	20010104
	WO 2001049789	A3	20020321		
	WO 2001049789	C1	20021010		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	JP 2001254025	A2	20010918	JP 2000-48125	20000224
	JP 2001302929	A2	20011031	JP 2000-126265	20000420
	JP 2001302934	A2	20011031	JP 2000-126266	20000420
	JP 2001302931	A2	20011031	JP 2000-126268	20000420

CA 2397715	AA	20010712	CA 2001-2397715	20010104
EP 1254192	A2	20021106	EP 2001-905648	20010104
EP 1254192	B1	20040804		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

AT 272675	E	20040815	AT 2001-905648	20010104
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ES 2220714	T3	20041216	ES 2001-1905648	20010104
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US 2004214965	A1	20041028	US 2002-169647	20021003
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US 7022800	B2	20060404		
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PRAI JP 2000-5783	A	20000106		
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JP 2000-48125	A	20000224		
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GB 2000-9684	A	20000420		
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JP 2000-126265	A	20000420		
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JP 2000-126266	A	20000420		
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JP 2000-126268	A	20000420		
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WO 2001-EP70	W	20010104		
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OS MARPAT 135:108137

AB A **moisture-curable** composition capable of curing to an elastomeric body, comprises a polymeric material having ≥ 2 OH or hydrolyzable groups, an alkoxysilane curative, and a catalyst comprising a mixture and/or reaction product of a compound (i) selected from M[OR]₄ and M[OR']_x[Z]_z, where M = a Group IVB metal, preferably Ti or Zr; R and R' may be a primary, secondary or tertiary aliphatic hydrocarbon or the group SiR₉₃; and a compound (ii) AC(O)R₁C(O)B where R₁ = a methylene group or a substituted methylene radical, A = (CX₂)_nC(R₂)₃ where n = 0-5, and an adamantyl group or a derivative; B = (CX₂)_tC(R₂)₃ where t = 0-5; a C1-6-alkyl; and OR₃, where R₃ = (CX₂)_tC(R₂)₃ and C1-6-alkyl; where each X = halogen radical and H, each R₂ = halogen radical and C1-8-alkyl, and when n > 0 ≥ 1 of X or R₂ is a halogen radical. Sealant compns. using di(isopropoxy)zirconium bis(methylpivaloylacetate) was initially colorless and after 4 mo. at 50° was still colorless with tack free time 75 min.

IC ICM C08L083-04

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 39

ST polysiloxane **moisture curable** elastomer sealant; crosslinking Group IVB ester catalyst polysiloxane; zirconium diisopropoxy methylpivaloylacetate catalyst

IT Crosslinking catalysts

(for organosiloxane compns. for **moisture-curable** sealants without yellowing)

IT Silicone rubber, properties

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(organosiloxane compns. for **moisture-curable** sealants without yellowing)

IT	144665-26-9	349582-14-5	349582-15-6	349582-17-8	349582-19-0
	349582-21-4	349582-23-6	349582-25-8	349582-27-0	349582-29-2
	349582-31-6	349582-32-7	349582-33-8	349582-35-0	349582-37-2
	349582-39-4	349582-41-8	349582-43-0	349582-44-1	349582-45-2
	349582-46-3	349582-47-4	349582-48-5	349582-49-6	349582-50-9
	349582-51-0	349582-52-1	349582-53-2	349582-54-3	349582-55-4
	349582-56-5	349582-57-6	349582-58-7	349582-59-8	349582-60-1
	349582-61-2	349582-62-3	349582-63-4	349582-64-5	349582-66-7
	349582-68-9	349582-70-3	349582-72-5	349582-74-7	349582-76-9
	349582-77-0	349655-45-4			

RL: CAT (Catalyst use); USES (Uses)

(for organosiloxane compns. for **moisture-curable** sealants without yellowing)

IT 31900-57-9D, Dimethylsilanediol homopolymer, triethoxysilylethylene-

terminated 210548-76-8

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(for organosiloxane compns. for **moisture-curable** sealants without yellowing)

IT 1185-55-3, Methyltrimethoxysilane 18395-30-7, Isobutyltrimethoxysilane

RL: TEM (Technical or engineered material use); USES (Uses)

(for organosiloxane compns. for **moisture-curable** sealants without yellowing)

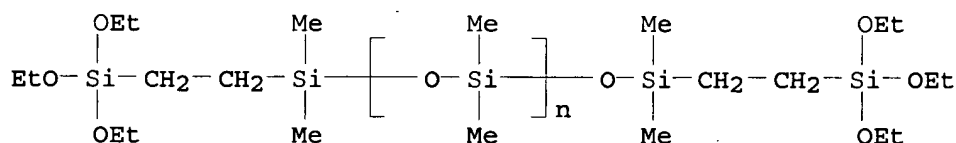
IT 210548-76-8

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(for organosiloxane compns. for **moisture-curable** sealants without yellowing)

RN 210548-76-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



L34 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:493336 HCAPLUS

DN 133:125317

TI Lenses capable of post-fabrication power modification

IN Jethmalani, Jagdish M.; Grubbs, Robert H.; Sandstedt, Christian A.; Kornfield, Julia A.; Schwartz, Daniel M.

PA California Institute of Technology, USA; University of California, San Francisco

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

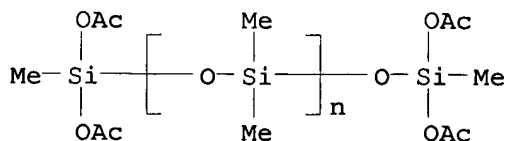
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000041650	A1	20000720	WO 1999-US23728	19991013
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6450642	B1	20020917	US 1999-416044	19991008
CA 2360583	AA	20000720	CA 1999-2360583	19991013
AU 9964267	A1	20000801	AU 1999-64267	19991013
AU 766157	B2	20031009		
EP 1139921	A1	20011010	EP 1999-951937	19991013
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			

BR 9916895	A	20020319	BR 1999-16895	19991013
JP 2004500585	T2	20040108	JP 2000-593264	19991013
US 2003093150	A1	20030515	US 2002-175552	20020618
US 2003090013	A1	20030515	US 2002-176947	20020618
US 2003090624	A1	20030515	US 2002-177722	20020618
US 2003173691	A1	20030918	US 2003-358065	20030203
PRAI US 1999-115617P	P	19990112		
US 1999-132871P	P	19990505		
US 1999-140298P	P	19990617		
US 1999-416044	A2	19991008		
WO 1999-US23728	W	19991013		
US 2002-177722	A1	20020618		
AB	The present invention relates to lenses that are capable of post-fabrication power modifications. In general, the inventive lenses comprise (i) a first polymer matrix and (ii) a refraction modulating composition that is capable of stimulus-induced polymerization dispersed therein. When at least a portion of the lens is exposed to an appropriate stimulus, the refraction modulating composition forms a second polymer matrix. The amount and location of the second polymer matrix may modify a lens characteristic such as lens power by changing its refractive index and/or by altering its shape. The inventive lenses have a number of applications in the electronics and medical fields as data storage means and as medical lenses, particularly intraocular lenses, resp. Materials were prepared from polydimethylsiloxane end-capped with diacetoxymethylsilane, dimethylsiloxane-diphenylsiloxane copolymer end-capped with dimethylvinylsilane and UV photoinitiator 2,2-dimethoxy-2-phenylacetophenone.			
IC	ICM A61F002-16 ICS G02B001-04			
CC	63-7 (Pharmaceuticals)			
ST	ophthalmic lens siloxane power modification			
IT	Polysiloxanes, biological studies RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (di-Me, di-Ph, vinyl group-terminated; lenses capable of post-fabrication power modification)			
IT	Intraocular lenses (lenses capable of post-fabrication power modification)			
IT	Polysiloxanes, biological studies RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (lenses capable of post-fabrication power modification)			
IT	Polymerization (photopolymn.; lenses capable of post-fabrication power modification)			
IT	24650-42-8, 2,2-Dimethoxy-2-phenylacetophenone RL: CAT (Catalyst use); USES (Uses) (lenses capable of post-fabrication power modification)			
IT	31900-57-9D, Polydimethylsiloxane, diacetoxymethylsilane end-capped 156048-34-9D, Dimethylsilanediol-diphenylsilanediol copolymer, vinyl dimethylsilyl-terminated 158465-54-4 RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (lenses capable of post-fabrication power modification)			
IT	158465-54-4 RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (lenses capable of post-fabrication power modification)			
RN	158465-54-4 HCAPLUS			
CN	Poly[oxy(dimethylsilylene)], α -[bis(acetyloxy)methylsilyl]- ω -[[bis(acetyloxy)methylsilyl]oxy]- (9CI) (CA INDEX NAME)			



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:441876 HCAPLUS

DN 133:75187

TI Silicone compositions with rapid development of green strength for sealants

IN Deng, Qin; Krahne, Robert H.; Lower, Loren D.; Palmer, Richard A.; Shephard, Nick E.

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000037565	A1	20000629	WO 1999-US30421	19991220
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6235832	B1	20010522	US 1999-456423	19991208
	EP 1141132	A1	20011010	EP 1999-966494	19991220
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002533518	T2	20021008	JP 2000-589628	19991220
PRAI	US 1998-217421	A	19981221		
	US 1999-456423	A	19991208		
	WO 1999-US30421	W	19991220		

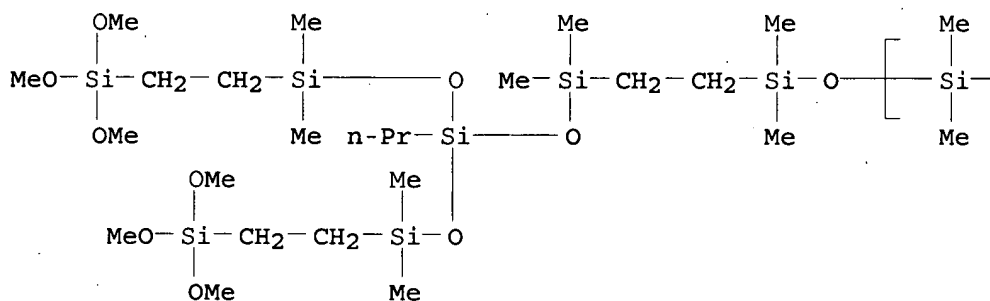
AB The **moisture-curable** room temperature vulcanizing (RTV) silicone composition comprises (A) 0-85% polydiorganosiloxanes comprising on average ≥ 1.2 chain terminations/mol. selected from hydroxysilyl groups and alkoxysilyl groups, (B) .apprx.10-95% polydiorganosiloxanes comprising on average ≥ 1.2 chain terminations/mol. selected from hydroxysilyl groups, alkoxysilyl groups, and multi-alkoxysilyl groups, provided that ≥ 1 chain termination/mol. comprises a multi-alkoxysilyl group, (C) a condensation catalyst, (D) 0-40% alkoxysilane, and (E) 0-60% filler; provided that the sum of components (A) and (B) comprises .apprx.20-95% based on the total weight of the RTV silicone composition Thus, a curable composition

containing polydimethylsiloxane terminated with $\text{H}(\text{Me}_2\text{SiOSi}(\text{Pr})(\text{OSiMe}_2\text{CH}_2\text{CH}_2\text{Si}(\text{OMe})_3)_2$ 56, CaCO_3 40, chelate 1, methyltrimethoxysilane 2.5, and adhesion promoter 0.5% had green strength 872.5 Pa; vs. 311.6 Pa for a curable composition containing linear siloxane.

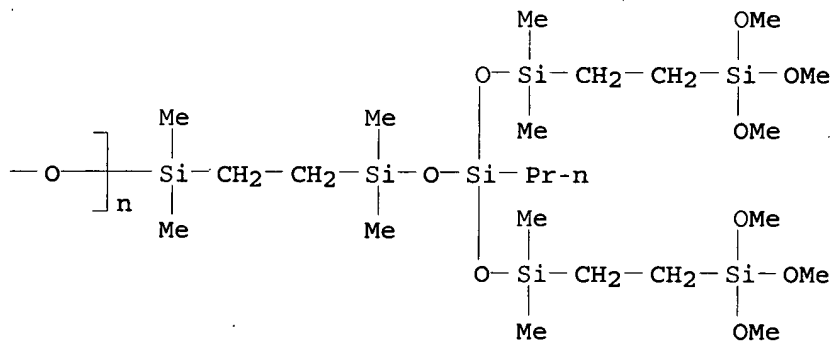
IC ICM C08L083-14
CC 39-9 (Synthetic Elastomers and Natural Rubber)
Section cross-reference(s): 42
ST silicone rubber **moisture curable** silicone improved
green strength; multitrimethoxysilyl terminal polydimethylsiloxane
precursor sealant
IT Sealing compositions
(silicone compns. with rapid development of green strength for)
IT Silicone rubbers, properties
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(silicone compns. with rapid development of green strength for
sealants)
IT 1760-24-3 6674-22-2, 1,8-Diazabicyclo[5.4.0]undec-7-ene
RL: CAT (Catalyst use); USES (Uses)
(accelerator; silicone compns. with rapid development of green strength
for sealants)
IT 274932-10-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(endcapper; silicone compns. with rapid development of green strength
for sealants)
IT 274696-46-7
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(endcapper; silicone compns. with rapid development of green strength
for sealants)
IT 471-34-1, Calcium carbonate, uses 7631-86-9, Silica, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(filler; silicone compns. with rapid development of green strength for
sealants)
IT 2370-88-9, 1,3,5,7-Tetramethylcyclotetrasiloxane 172080-99-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(in endcapper manufacture; silicone compns. with rapid development of green
strength for sealants)
IT 999-97-3, Hexamethyldisilazane
RL: TEM (Technical or engineered material use); USES (Uses)
(scavenger; silicone compns. with rapid development of green strength
for sealants)
IT 1067-33-0 3087-39-6, Tetra-tert-butyltitanate 22673-19-4, Dibutyltin
bisacetylacetonate 27858-32-8
RL: CAT (Catalyst use); USES (Uses)
(silicone compns. with rapid development of green strength for
sealants)
IT 31900-57-9D, Dimethylsilanediol homopolymer, multi-alkoxysilyl-terminated
278798-42-8 278798-43-9 278803-23-9
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(silicone compns. with rapid development of green strength for
sealants)
IT 1185-55-3
RL: TEM (Technical or engineered material use); USES (Uses)
(silicone compns. with rapid development of green strength for
sealants)
IT **278798-42-8 278798-43-9 278803-23-9**
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(silicone compns. with rapid development of green strength for
sealants)
RN 278798-42-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[2-[3-[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-1,1,5,5-tetramethyl-3-propyl-5-[2-(trimethoxysilyl)ethyl]trisiloxanyl]ethyl]dimethylsilyl]- ω -[[[2-[3-[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-1,1,5,5-tetramethyl-3-propyl-5-[2-(trimethoxysilyl)ethyl]trisiloxanyl]ethyl]dimethylsilyl]oxy]-(9CI) (CA INDEX NAME)

PAGE 1-A



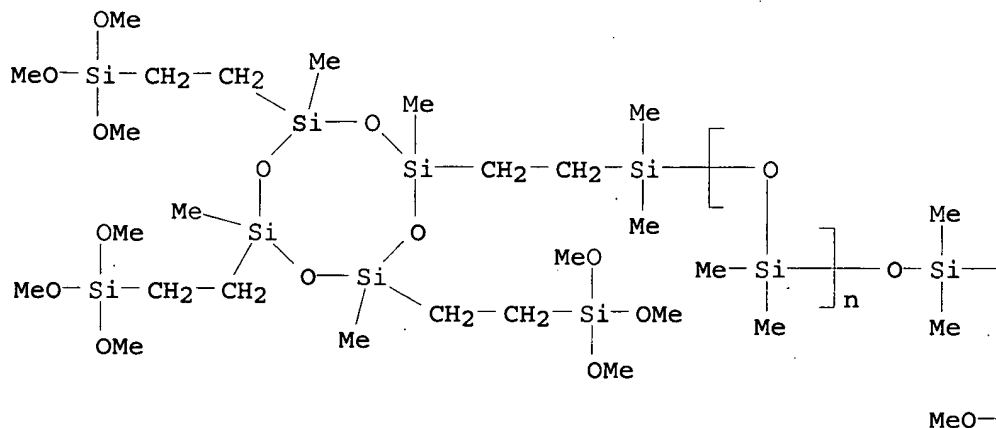
PAGE 1-B



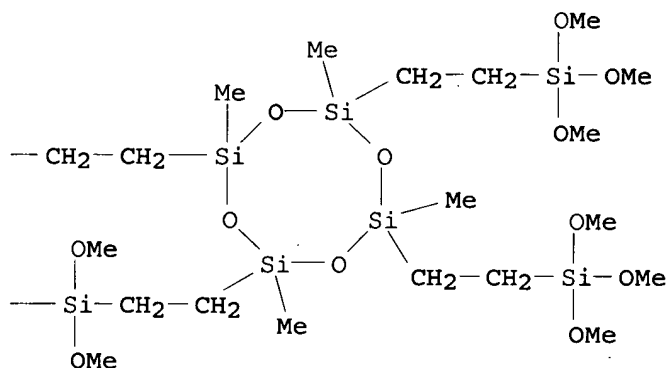
RN 278798-43-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-[2,4,6,8-tetramethyl-4,6,8-tris[2-(trimethoxysilyl)ethyl]cyclotetrasiloxan-2-yl]ethyl]silyl]- ω -[[dimethyl[2-[2,4,6,8-tetramethyl-4,6,8-tris[2-(trimethoxysilyl)ethyl]cyclotetrasiloxan-2-yl]ethyl]silyl]oxy]-(9CI) (CA INDEX NAME)

PAGE 1-A



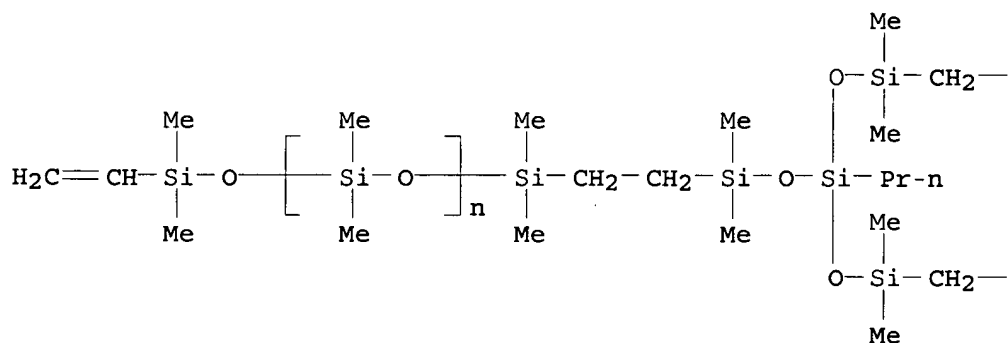
PAGE 1-B



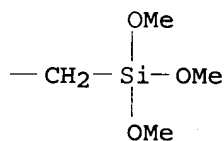
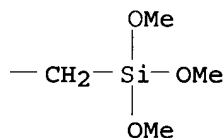
RN 278803-23-9 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[2-[3-[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-1,1,5,5-tetramethyl-3-propyl-5-[2-(trimethoxysilyl)ethyl]trisiloxanyl]ethyl]dimethylsilyl]- ω -[(ethenyldimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:425632 HCAPLUS

DN 131:60129

TI Fast-curing alkoxy-functional RTV compositions

IN Nylund, Kimberly Kay; Palmer, Richard Alan

PA Dow Corning Corporation, USA

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

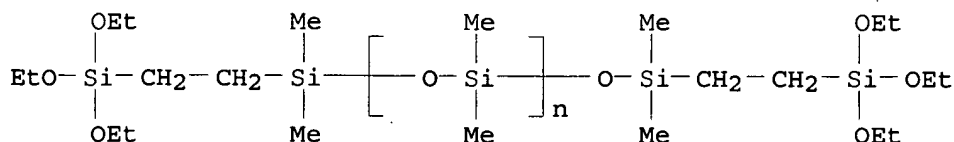
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 926206	A2	19990630	EP 1998-310554	19981222
	EP 926206	A3	20000202		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6008284	A	19991228	US 1997-997523	19971223
	JP 11246768	A2	19990914	JP 1998-366960	19981224
PRAI	US 1997-997523	A	19971223		
AB	A moisture curing alkoxy-functional RTV composition				

comprises (A) polymers having on average at least 1.2 alkoxysilyl chain terminations per mol. described by $-\text{SiR}_1\text{x}(\text{OR})_{3-\text{x}}$ where each R is independently selected from the group consisting of Me, Et, Pr, iso-Pr, Bu, sec-Bu and iso-Bu, R1 is selected from Me or Et and x is 0 or 1; (B) a tetraalkoxytitanium compound described by $\text{Ti}(\text{OR}_2)_y(\text{OR}_3)_{4-y}$ (V) where each R2 is independently selected from tertiary alkyl radicals or 2,4-dimethyl-3-pentyl; each R3 is an independently selected alkyl radical of 1 to 6 carbon atoms; and y is an average value of 3 to 4; (C) a filler having hydroxyl content derived from covalently bonded hydroxyl groups, adsorbed water, or both, covalently bonded hydroxyl groups and adsorbed water; and (D) an alkoxysilane described by $\text{R}_4\text{zSi}(\text{OR}_5)_{4-\text{z}}$ (VI) where each R4 is independently selected from alkyl radicals of 1 to 12 carbon atoms and alkenyl radicals comprising from 1 to 12 carbon atoms, each R5 is independently selected from Me or Et and z is 1 or 2; with the proviso that components (A), (B), (C) and (D) are added in amts. such that a molar ratio (I) is at least 0.9 and a molar ratio (II) is in a range of 0.15 to 0.6, . Molar ratio (I) = [moles of Component (B) + moles of Component (D)]/mol of hydroxyl in Component (C) and molar ratio II = moles of Component (B)/ [moles of Component (D) + moles of alkoxysilyl chain terminations in Component (A)].

- IC ICM C08L083-04
ICS C08K005-00
- CC 42-11 (Coatings, Inks, and Related Products)
- ST fast curing alkoxy functional RTV compn; silicone alkoxy RTV sealant
- IT Sealing compositions
(fast-curing alkoxy-functional RTV compns.)
- IT Polysiloxanes, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(fast-curing alkoxy-functional RTV compns.)
- IT 7631-86-9, Silica, uses
RL: MOA (Modifier or additive use); USES (Uses)
(fast-curing alkoxy-functional RTV compns.)
- IT 31900-57-9D, Polydimethylsiloxane, trimethoxysilylethyl-terminated
210548-76-8
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(fast-curing alkoxy-functional RTV compns.)
- IT 546-68-9, Tetraisopropoxy titanium 1112-39-6, Dimethyldimethoxysilane 1185-55-3, Methyltrimethoxysilane 7440-32-6D, Titanium, butoxide isopropoxides, uses 7440-32-6D, Titanium, tert-amyl oxide isopropoxides, uses 7440-32-6D, Titanium, tert-butoxide isopropoxides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(fast-curing alkoxy-functional RTV compns.)
- IT **210548-76-8**
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(fast-curing alkoxy-functional RTV compns.)
- RN 210548-76-8 HCAPLUS
- CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]-(9CI) (CA INDEX NAME)



L34 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:354336 HCAPLUS

DN 131:6435

TI **Moisture-curable** organosiloxane compositions
containing titanium compounds

IN De Buyl, Francois; Leempoel, Patrick

PA Dow Corning S. A., Belg.

SO U.S., 6 pp., Cont.-in-part of U.S. 5,733,996.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5908909	A	19990601	US 1997-938976	19970926
	US 5733996	A	19980331	US 1996-657505	19960604
	EP 934980	A1	19990811	EP 1998-307765	19980924
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9887081	A1	19990415	AU 1998-87081	19980925
	JP 11158381	A2	19990615	JP 1998-271291	19980925
PRAI	US 1996-657505	A2	19960604		
	GB 1995-12347	A	19950608		
	GB 1996-7985	A	19960417		
	US 1997-938976	A	19970926		
AB	A composition curable in presence of atmospheric moisture to an elastomeric body comprises (A) the product formed by mixing a polymeric material having at least two groups bonded to silicon which are hydroxyl or alkoxy group and an alkoxy silane curative and (B) a titanium compound according to the general formula $Ti(OR)_x(OR')_y(OR^*)_z$ where x is 0 to 0.4 inclusive, y is 0 to 3.9, z is 0.1 to 4, $x+y+z=4$, R^* is 2,4-dimethyl-3-pentyl, R' represents a monovalent tertiary aliphatic hydrocarbon group, and R represents a monovalent linear aliphatic hydrocarbon group having 1 to 6 carbon atoms. The compns. cure quickly and do not yellow.				
IC	ICM B32B009-04				
INCL	528017000				
CC	39-9 (Synthetic Elastomers and Natural Rubber)				
ST	silicone rubber moisture curable sealant; titanium compd silicone rubber sealant				
IT	Sealing compositions (moisture-curable organosiloxane compns. containing titanium compds.)				
IT	Silicone rubber, preparation RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (moisture-curable organosiloxane compns. containing titanium compds.)				
IT	546-68-9D, Tetraisopropyltitanate, reaction products with 2,4-dimethylpentan-3-ol 600-36-2D, 2,4-Dimethylpentan-3-ol, reaction products with tetraisopropyltitanate RL: CAT (Catalyst use); USES (Uses) (moisture-curable organosiloxane compns. containing titanium compds.)				
IT	225668-81-5P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (moisture-curable organosiloxane compns. containing titanium compds.)				

titanium compds.)

IT 1185-55-3, Methyl trimethoxysilane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (**moisture-curable** organosiloxane compns. containing titanium compds.)

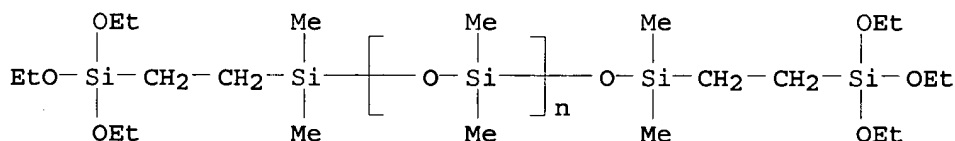
IT 225668-81-5P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (**moisture-curable** organosiloxane compns. containing titanium compds.)

RN 225668-81-5 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]-, polymer with trimethoxymethylsilane (9CI) (CA INDEX NAME)

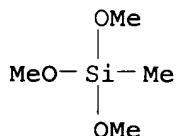
CM 1

CRN 210548-76-8
 CMF (C2 H6 O Si)_n C20 H50 O7 Si4
 CCI PMS



CM 2

CRN 1185-55-3
 CMF C4 H12 O3 Si



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:219843 HCAPLUS

DN 130:268429

TI **Moisture-curable** alkoxy-functional organosiloxane compositions with improved green strength and storage stability

IN De Buyl, Francois; Krahnke, Robert Harold; Lueder, Timothy Brian; Palmer, Richard Alan

PA Dow Corning Corporation, USA

SO Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 905194	A2	19990331	EP 1998-307307	19980909
	EP 905194	A3	20000202		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 5948854	A	19990907	US 1997-937525	19970925
	JP 11181287	A2	19990706	JP 1998-271921	19980925
PRAI	US 1997-937525	A	19970925		
AB	Room temperature vulcanizing composition, useful for sealants, comprises (A) a polymers containing ≥ 1.2 (average) alkoxy-silyl chain terminations/mol., (B) a tetraalkoxytitanium compound containing >90 mol% alkoxy groups as tert-amyloxy groups, a filler and an alkoxy-silane. Thus, 52.75 parts mixture of (CH ₃ O) ₃ SiCH ₂ CH ₂ Si(CH ₃) ₂ OSi(CH ₃) ₂ CH ₂ CH ₂ [Si(CH ₃) ₂ O] _n Si(CH ₃) ₂ Si(CH ₃) ₂ OSi(CH ₃) ₂ CH ₂ CH ₂ Si(OCH ₃) ₃ and (CH ₃ O) ₃ SiCH ₂ CH ₂ Si(CH ₃) ₂ OSi(CH ₃) ₂ CH ₂ CH ₂ [Si(CH ₃) ₂ O] _n Si(CH ₃) ₂ CH:CH ₂ was mixed with Ti[O(tert-Amyl)] ₃ .92[O(iso-Pr)] _{0.08} 2.00, methyltrimethoxysilane 0.75, silica 3.5, CaCO ₃ 40.0, rheol. additive 0.5 and adhesion promoter 0.5 parts, showing green strength 7584 Pa initially and 9653 Pa after aging at 50° for 1 wk.				
IC	ICM C08L083-04				
	ICS C08L083-14; C08K005-057; C08G065-32; C08L071-02				
CC	39-10 (Synthetic Elastomers and Natural Rubber)				
	Section cross-reference(s): 38				
ST	silicone rubber room temp vulcanizing moisture curable sealant; amyloxyalkoxy titanium catalyst alkoxy-silyl terminated polysiloxane rubber RTV				
IT	Fillers				
	Vulcanization accelerators and agents				
	(moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				
IT	Silicone rubber, uses				
	RL: TEM (Technical or engineered material use); USES (Uses)				
	(moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				
IT	Sealing compositions				
	(moisture-curable; moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				
IT	67-63-0D, Isopropanol, titanium complex with tert-amyl alc. and 75-85-4D, tert-Amyl alcohol, titanium complex with isopropanol and 7440-32-6D, Titanium, complex with tert-amyl alc. and iso-Pr alc., uses				
	RL: CAT (Catalyst use); USES (Uses)				
	(catalyst; moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				
IT	471-34-1, Calcium carbonate, uses 7631-86-9, Silica, uses				
	RL: MOA (Modifier or additive use); USES (Uses)				
	(filler; moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				
IT	222320-53-8P				
	RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				
IT	1112-39-6, Dimethyldimethoxysilane 1185-55-3				
	RL: MOA (Modifier or additive use); USES (Uses)				
	(moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)				

IT 222320-53-8P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (moisture-curable alkoxy-functional organosiloxane compns. with improved green strength and storage stability)

RN 222320-53-8 HCAPLUS

CN Poly[oxy(dimethoxysilylene)], α -[dimethoxy[2-[1,1,3,3-tetramethoxy-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]- ω -[(ethenyldimethoxysilyl)oxy]-, polymer with α -[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]- ω -[[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]oxy]poly[oxy(dimethylsilylene)] (9CI) (CA INDEX NAME)

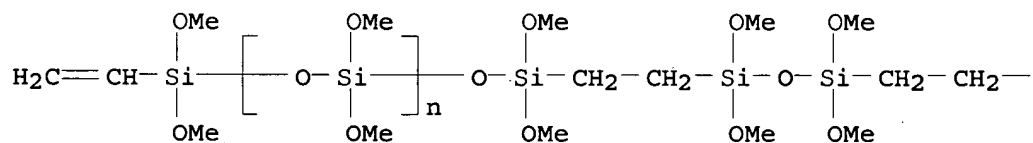
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CRN 222320-52-7

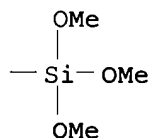
CMF (C2 H6 O3 Si)_n C17 H44 O13 Si5

CCI PMS

PAGE 1-A



PAGE 1-B



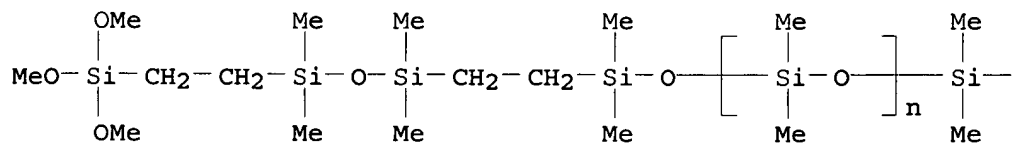
CM 2

CRN 160313-14-4

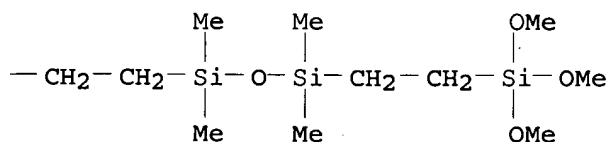
CMF (C2 H6 O Si)_n C26 H70 O9 Si8

CCI PMS

PAGE 1-A



PAGE 1-B



L34 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:701870 HCAPLUS

DN 127:332888

TI **Moisture-curable** organosiloxane composition with a silicone glycol adhesion promoter as elastic sealing material

IN Leempoel, Patrick

PA Dow Corning SA, Belg.

SO Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 802233	A2	19971022	EP 1997-302409	19970408
	EP 802233	A3	19980325		
	EP 802233	B1	20040218		
	R: DE, ES, FR, GB, IT, NL				
	US 5833798	A	19981110	US 1997-832018	19970402
	ES 2212046	T3	20040716	ES 1997-302409	19970408
	CA 2202340	AA	19971017	CA 1997-2202340	19970410
	AU 9718903	A1	19971023	AU 1997-18903	19970415
	JP 10036810	A2	19980210	JP 1997-100322	19970417
	US 6034171	A	20000307	US 1998-122969	19980727
PRAI	GB 1996-7897	A	19960417		
	US 1997-832018	A3	19970402		

AB Title composition with excellent adhesion comprises a polymer having silicon bonded with ≥ 2 hydroxyl or hydrolyzable groups, an alkoxysilane curative, and a polyorganosiloxane with an ethylene oxide/propylene oxide copolymer side chain as adhesion promoter. Thus, triethoxysilylethyl-terminated polydimethylsiloxane 70, methyltrimethoxysilane 4.5, polydimethylsiloxane-treated silica 10, trimethylsilyl-terminated polydimethylsiloxane 13.5, adhesion promoter formed from aminoethyl aminopropyl trimethoxysilane and γ -glycidoxypropyl trimethoxysilane 0.25 parts were formulated to a master batch, 99 parts of which was mixed with 1 part of silicone glycol adhesion promoter $\text{Me}_3\text{SiO}(\text{Me}_2\text{SiO})_{64}(\text{MeRSiO})_3\text{SiMe}_3$ where R was $-(\text{C}_3\text{H}_6)-(\text{C}_3\text{H}_6\text{O})_4\text{OH}$, to give a sealant showing adhesion to glass as good as comparative (no adhesion promoter) and better on PMMA and polycarbonate.

IC ICM C08L083-04

CC 42-11 (Coatings, Inks, and Related Products)

ST **moisture curable** organosiloxane sealant adhesion promoter; silicone glycol adhesion promoter organosiloxane sealant; polydimethylsiloxane methyltrimethoxysilane sealant adhesion promoter; oxirane methyloxirane silicone graft adhesion promoter

IT Adhesion promoters

(**moisture-curable** organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT Polysiloxanes, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material

use); USES (Uses)
 (moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT Sealing compositions
 (moisture-curable; moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT Polysiloxanes, uses
 Polysiloxanes, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyoxyalkylene-, graft, adhesion promoter; moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT Polyoxyalkylenes, uses
 Polyoxyalkylenes, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polysiloxane-, graft, adhesion promoter; moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT 1760-24-3
 RL: MOA (Modifier or additive use); USES (Uses)
 (adhesion promoter; in moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT 2530-83-8, γ -Glycidoxypropyl trimethoxysilane 9003-11-6D, Ethylene glycol-propylene glycol copolymer, grafted with polysiloxanes 197811-98-6
 RL: MOA (Modifier or additive use); USES (Uses)
 (adhesion promoter; moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT 1185-55-3
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (curative; moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

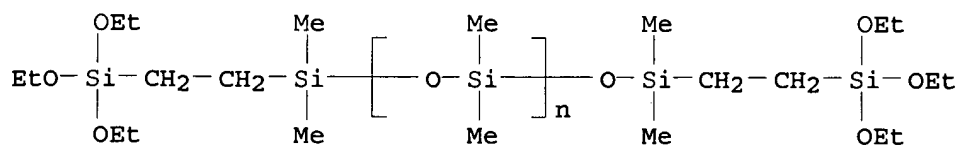
IT 42557-10-8, Trimethylsilyl-terminated polydimethylsiloxane, sru
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (in moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT 31900-57-9D, Polydimethylsiloxane, triethoxysilylethyl- or trimethylsilyl-terminated 210548-76-8
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

IT 210548-76-8
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (moisture-curable organosiloxane elastic sealant composition with silicone glycol adhesion promoter)

RN 210548-76-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(triethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-(triethoxysilyl)ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



L34 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:701860 HCAPLUS

DN 127:332887

TI Method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester

IN Lower, Loren Dale

PA Dow Corning Corporation, USA

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 802222	A1	19971022	EP 1997-302512	19970411
	R: BE, DE, FR, GB, IT				
	AU 9718924	A1	19971023	AU 1997-18924	19970417
	JP 10036673	A2	19980210	JP 1997-100472	19970417
PRAI	US 1996-634498	A	19960418		

AB Title method comprises adding a monoketo ester, such as ethylacetoacetate, to a RTV silicone composition comprising a polydiorganosiloxane terminated with ≥ 2 C1-4 alkoxy groups, a crosslinker having ≥ 2 silicon-bonded methoxy or ethoxy group, a filler and a titanate catalyst; applying onto a substrate and atmospheric **moisture curing**. Thus, 70 parts mixture of dimethylvinyl- and trimethoxysilethylene-terminated polydisiloxane and trimethoxysilethylene-terminated polydimethylsiloxane (I, viscosity 60 Pa.s) and 30 parts I (viscosity 10 Pa.s) was mixed with dimethyldimethoxysilane 3, ethylacetoacetate 1.24, an adhesion promoter (30/70 γ -aminopropyltriethoxysilane and γ -glycidoxypropyltrimethoxysilane) 0.5, dimethyldimethoxysilane-treated fumed silica 13.5 and tetraisopropyl titanate catalyst 1.3 parts, applied as a 0.6 cm bead of sealant, cured for 10 days by exposure to ambient air, wherein one end of the cured bead was undercut and pulled on acrylic sheet, showing cohesive failure 100%, vs. 0% for a sealant without ethylacetoacetate.

IC ICM C08K005-07

ICS C08L083-04; C08L083-14; C08K005-00; C08K005-54

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39

ST silicone rubber sealant RTV improving adhesion; monoketo ester adhesion promoter silicone sealant; alkoxysilethylene vinyl terminated polydimethylsiloxane RTV sealant; dimethyldimethoxysilane vulcanizing agent silicone rubber

IT Silanes

RL: MOA (Modifier or additive use); USES (Uses)

(alkylalkoxy, Vulcanizing agent; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)

IT Silanes

RL: MOA (Modifier or additive use); USES (Uses)

(amino, alkoxy-, adhesion promoter; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)

- IT Silicone rubber, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(di-Me, (alkoxysilyl)-terminated; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT Esters, uses
RL: MOA (Modifier or additive use); USES (Uses)
(keto, mono-, adhesion promoter; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT Adhesion promoters
Sealing compositions
Vulcanization accelerators and agents
(method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT Wood
(plywood, substrate; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT Amines, uses
RL: MOA (Modifier or additive use); USES (Uses)
(silyl, alkoxy-, adhesion promoter; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT Concrete
Enamels (paints)
(substrate; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT Acrylic polymers, miscellaneous
Glass fibers, miscellaneous
Granite, miscellaneous
Metals, miscellaneous
Plastics, miscellaneous
Polyurethanes, miscellaneous
RL: MSC (Miscellaneous)
(substrate; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT 7429-90-5, Aluminum, miscellaneous 12597-70-5, Bronze
RL: MSC (Miscellaneous)
(Anodized, substrate; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT 1112-39-6 1185-55-3
RL: MOA (Modifier or additive use); USES (Uses)
(Vulcanizing agent; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT 141-97-9, Ethylacetoacetate 919-30-2, γ -Aminopropyltriethoxysilane
2530-83-8, γ -Glycidoxypropyltrimethoxysilane
RL: MOA (Modifier or additive use); USES (Uses)
(adhesion promoter; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT 197857-73-1
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(rubber; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT 9002-86-2, Poly(vinyl chloride)
RL: MSC (Miscellaneous)
(substrate; method of improving adhesion of room temperature vulcanizable silicone sealants by adding a monoketo ester)
- IT 197857-73-1
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(rubber; method of improving adhesion of room temperature vulcanizable

silicone sealants by adding a monoketo ester)

RN 197857-73-1 HCAPLUS

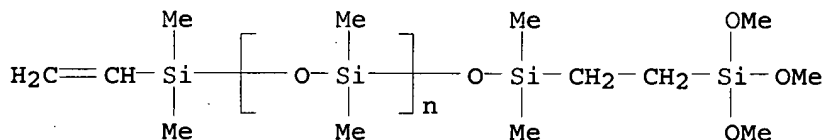
CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-(trimethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-, polymer with α -(ethenyldimethylsilyl)- ω -[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]poly[oxy(dimethylsilylene)] (9CI) (CA INDEX NAME)

CM 1

CRN 197857-72-0

CMF (C2 H6 O Si)_n C11 H28 O4 Si3

CCI PMS

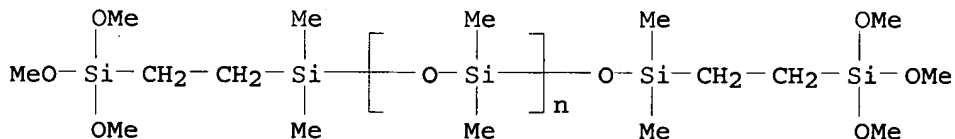


CM 2

CRN 160480-15-9

CMF (C2 H6 O Si)_n C14 H38 O7 Si4

CCI PMS



L34 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:34888 HCAPLUS

DN 124:119876

TI **Moisture-curable** hot melt silicone pressure-sensitive adhesives

IN Strong, Michael R.; Cifuentes, Martin E.; Vanwert, Bernard; Schoenherr, William J.

PA Dow Corning Corporation, USA

SO U.S., 11 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5473026	A	19951205	US 1994-262791	19940620
	EP 688847	A2	19951227	EP 1995-304113	19950614
	EP 688847	A3	19961030		
	EP 688847	B1	20030813		
	R: DE, FR, GB, NL				
	CA 2152130	AA	19951221	CA 1995-2152130	19950619
	JP 08012960	A2	19960116	JP 1995-153244	19950620

JP 3602202 B2 20041215
 BR 9502859 A 19960604 BR 1995-2859 19950620
 PRAI US 1994-262791 A 19940620

AB A **moisture-curable** silicone hot melt pressure sensitive adhesive composition comprises: (A) a solid alkoxy functional organopolysiloxane resin containing curing radicals $ZSiR_1x(OR_2)_{3-x}$; where R_1 is a monovalent hydrocarbon radical, R_2 is an alkyl radical or alkoxyalkyl radical, Z is a divalent linking radical, and x is 0 or 1; (B) a diorganopolysiloxane polymer (I), each terminal group thereof containing ≥ 1 Si-bonded hydrolyzable functional radical selected from C1-4 alkoxy radicals, ketoxime radicals, aminoxy radicals, acetamido radicals, N-methylacetamido radicals and acetoxy radicals; and (C) a curing catalyst. I has a viscosity at 25° of 20 to <100,000 mm²/s, and the weight ratio of the resin to the polymer is 40:60 to 80:20. The composition is an essentially solvent-free, non-slump solid at room temperature which cures to an essentially non-tacky elastomer upon exposure to moisture.

IC ICM C08L083-06
 INCL 525477000

CC 39-9 (Synthetic Elastomers and Natural Rubber)
 Section cross-reference(s): 38

ST **moisture curable** silicone adhesive; hot melt pressure sensitive adhesive

IT Siloxanes and Silicones, uses
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (**moisture-curable** hot melt silicone pressure-sensitive adhesives)

IT Adhesives
 (hot-melt, pressure-sensitive, **moisture-curable** hot melt silicone pressure-sensitive adhesives)

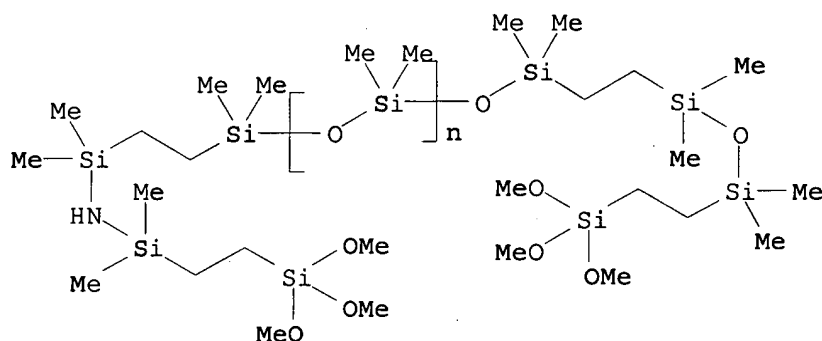
IT 999-97-3, Hexamethyldisilazane 18395-30-7, Isobutyltrimethoxysilane 122638-21-5 137407-65-9 151930-14-2
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (**moisture-curable** hot melt silicone pressure-sensitive adhesives)

IT 31692-79-2, Hydroxy-terminated polydimethylsiloxane 31900-57-9D, Dimethylsilanediol homopolymer, [[[trimethoxysilyl]ethyl]dimethylsiloxy]d, imethylsilyl]ethyl-terminated 56275-01-5, Silicic acid trimethylsilyl ester 172992-92-6
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (**moisture-curable** hot melt silicone pressure-sensitive adhesives)

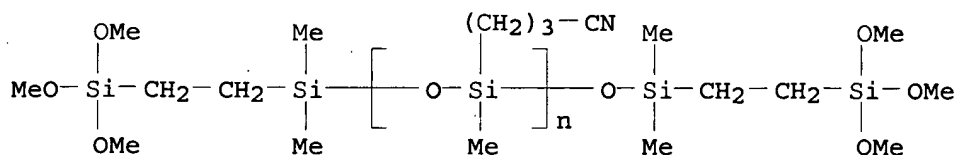
IT 172992-92-6
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (**moisture-curable** hot melt silicone pressure-sensitive adhesives)

RN 172992-92-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disilazanyl]ethyl]silyl]- ω -[[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



- L34 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1995:691031 HCAPLUS
 DN 123:288644
 TI Poly(cyanopropylmethylsiloxane) adhesives and sealants
 AU Venkatesan, V.; Lin, S.; Jayaraman, R. B.; Riffle, J. S.
 CS Virginia Polytechnic Institute, State University, Blacksburg, VA,
 24061-0344, USA
 SO Polymer Preprints (American Chemical Society, Division of Polymer
 Chemistry) (1995), 36(1), 483-4
 CODEN: ACPPAY; ISSN: 0032-3934
 PB American Chemical Society, Division of Polymer Chemistry
 DT Journal
 LA English
 AB Controlled-mol.-weight poly(cyanopropyl Me siloxane)oligomers were prepared
 using acid-catalyzed equilibration reactions of the cyclic cyanopropyl Me
 siloxane tetramer. Silicon hydride end groups were converted to
 trimethoxysilylethylene end groups which were **moisture**
curable at room temperature
 CC 38-3 (Plastics Fabrication and Uses)
 ST cyanopropyl methyl siloxane adhesive sealant
 IT Adhesives
 Sealing compositions
 (poly(cyanopropyl Me siloxane) adhesives and sealants)
 IT Siloxanes and Silicones, uses
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (poly(cyanopropyl Me siloxane) adhesives and sealants)
 IT **169518-32-5P** 169615-34-3P, 2,4,6,8-Tetra(cyanopropyl)-2,4,6,8-
 tetramethylcyclotetrasiloxane homopolymer
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (poly(cyanopropyl Me siloxane) adhesives and sealants)
 IT **169518-32-5P**
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (poly(cyanopropyl Me siloxane) adhesives and sealants)
 RN 169518-32-5 HCAPLUS
 CN Poly[oxy[(3-cyanopropyl)methylsilylene]], α -[dimethyl[2-
 (trimethoxysilyl)ethyl]silyl]- ω -[[dimethyl[2-
 (trimethoxysilyl)ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)



L34 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:302830 HCAPLUS

DN 122:56880

TI Method for the preparation of polydimethylsiloxanes having low reactivity endgroups and high reactivity endgroups and which contain contain ethylene chain linkages

IN Altes, Michael G.

PA Dow Corning Corp., USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5340899	A	19940823	US 1993-156129	19931122
PRAI	US 1993-156129		19931122		

AB The title method comprises, under conditions to exclude moisture from contacting ingredients, (I) mixing (A) an trialkoxysilyl-terminated polydimethylsiloxane (viscosity at 25° of from 0.5 to 500 Pa.s) in which the end groups are linked by ethylene groups to the main chain with (B) a hydroxy-terminated polydimethylsiloxane (viscosity at 25° of 0.5 to 500 Pa.s), then mixing with a hydrolyzable difunctional silane containing 2 N-methylacetamido groups sufficient to provide ≥1 hydrolyzable difunctional silane mol. per hydroxyl of the hydroxyl terminated polydimethylsiloxane. These polydimethylsiloxanes are useful for making sealants with reduced modulus.

IC ICM C08G077-04

ICS C08G077-06; C08G077-60

INCL 528034000

CC 35-6 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 42

ST siloxane sealant low reactivity; **moisture curable**
siloxane sealant

IT Sealing compositions

(preparation of polydimethylsiloxanes having low reactivity endgroups and high reactivity endgroups and which contain contain ethylene chain linkages)

IT Siloxanes and Silicones, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(alkoxy-terminated, preparation of polydimethylsiloxanes having low reactivity endgroups and high reactivity endgroups and which contain contain ethylene chain linkages)

IT Siloxanes and Silicones, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(hydroxy-terminated, preparation of polydimethylsiloxanes having low reactivity endgroups and high reactivity endgroups and which contain contain ethylene chain linkages)

IT 31692-79-2, Dimethylsiloxanediol 31900-57-9D, Dimethylsilanediol

homopolymer, alkoxy group-terminated 50791-87-2, Methylvinylbis(N-methylacetamido)silane **160313-14-4**

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(preparation of polydimethylsiloxanes having low reactivity endgroups and high reactivity endgroups and which contain contain ethylene chain linkages)

IT **160313-14-4**

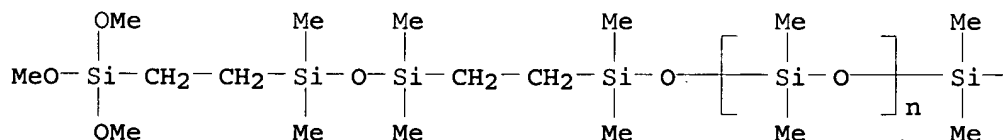
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(preparation of polydimethylsiloxanes having low reactivity endgroups and high reactivity endgroups and which contain contain ethylene chain linkages)

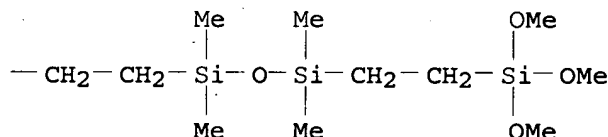
RN 160313-14-4 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]- ω -[[dimethyl[2-[1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxanyl]ethyl]silyl]oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L34 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:491544 HCAPLUS

DN 117:91544

TI Room-temperature-curable silyl group-containing polyether compositions

IN Fujiki, Hironao; Shiono, Mikio

PA Shin-Etsu Kagaku Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

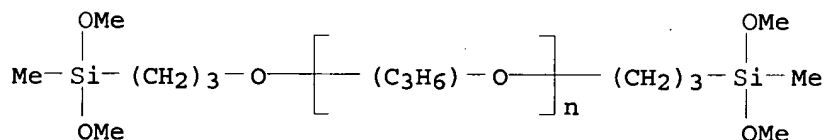
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04057850	A2	19920225	JP 1990-170721	19900628
PRAI	JP 1990-170721		19900628		

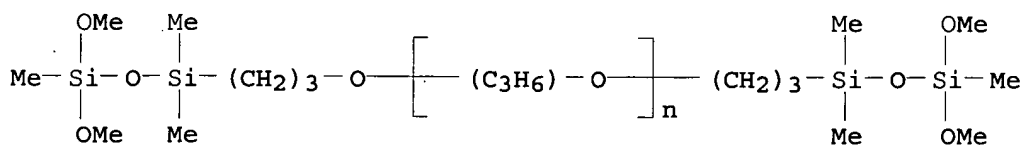
AB The title **compos.** useful for sealants. etc. without plasticizer bleeding comprise (A) 10-90% polyoxyalkylenes having both ends **capped** with hydrolyzable **silyl** groups, (B) 90-10% polyoxyalkylenes having single end **capped** with hydrolyzable **silyl** groups, and (c) curing catalysts. A **composition** contained polyoxypropylene having both end terminated with

OCH₂CH₂CH₂SiMe(OMe)₂ 50, polyoxypropylene with one end terminated with OCH₂CH₂CH₂SiMe(OMe)₂ and the other end with butoxy group 50, CaCO₃ 140, TiO₂ 25, styrenic phenol 1, and Bu₂Sn dilaurate 1 part and was cured to give test pieces with 50% modulus 2.8 kg/cm² and elongation 600%. A 3-mm sheet of the **composition** was aged 14 days at 90° and 60% humidity resulting in no oil bleeding.

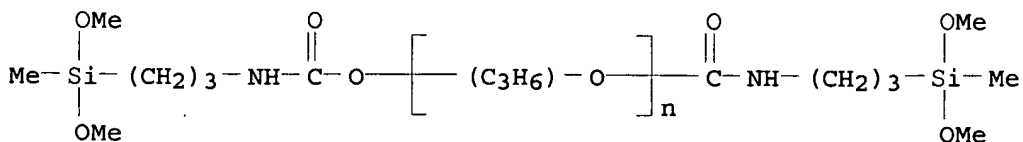
- IC ICM C08L071-02
ICS C08F299-08; C08G065-00
- CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 42
- ST polyoxyalkylene silyl terminated curable; bleeding resistant
polyoxyalkylene silyl **compn**; polyoxypropylene silyl terminated **compn**
- IT Polyoxyalkylenes, properties
RL: USES (Uses)
(silyl-terminated, curable, room-temperature, bleeding resistant)
- IT 75009-88-0 142881-29-6 142881-30-9 142881-31-0
142881-32-1 142881-33-2
RL: USES (Uses)
(curable, room-temperature, bleeding resistant)
- IT 75009-88-0 142881-30-9 142881-32-1
RL: USES (Uses)
(curable, room-temperature, bleeding resistant)
- RN 75009-88-0 HCAPLUS
- CN Poly[oxy(methyl-1,2-ethanediyl)], α-[3-(dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy]- (9CI) (CA INDEX NAME)



- RN 142881-30-9 HCAPLUS
- CN Poly[oxy(methyl-1,2-ethanediyl)], α-[3-(3,3-dimethoxy-1,1,3-trimethyldisiloxanyl)propyl]-ω-[3-(3,3-dimethoxy-1,1,3-trimethyldisiloxanyl)propoxy]- (9CI) (CA INDEX NAME)



- RN 142881-32-1 HCAPLUS
- CN Poly[oxy(methyl-1,2-ethanediyl)], α-[[[3-(dimethoxymethylsilyl)propyl]amino]carbonyl]-ω-[[[3-(dimethoxymethylsilyl)propyl]amino]carbonyl]oxy]- (9CI) (CA INDEX NAME)



L34 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1987:441060 HCAPLUS

DN 107:41060

TI Silicone adhesive compositions

IN Iwahara, Takanao; Kawakubo, Fumio; Yukimoto, Sadao; Isayama, Katsuhiko

PA Kanegafuchi Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62039646	A2	19870220	JP 1985-179024	19850814
	JP 06021194	B4	19940323		
PRAI	JP 1985-179024		19850814		

AB Compns. with good adhesion comprise 100 parts **moisture-curable** rubbers containing ≥ 1 reactive silyl group, 0.1-50 parts monosilanes having 2 OH or hydrolyzable groups or Si₂-20 compds. containing 2-5 OH groups or groups hydrolyzable to them and having ≤ 1 OH or hydrolyzable group on each Si, and 5-120 parts tackifier resins. Polypropylene glycol allyl ether was treated with HSiMe(OMe)₂ in the presence of H₂PtCl₆ and solvents at 80° to form a polymer, 100 parts of which was mixed with 2 parts Ph₂Si(OH)₂, 60 parts YS Polystar T 115 (tackifier), catalyst, and other additives, spread on a polyester film, and heated at 120° for 3-5 min to form a product showing adhesion to steel plate 450 g/cm, vs. 230 g/cm without the Ph₂Si(OH)₂.

IC ICM C08L021-00

ICS C08K005-54

ICA C08L071-02

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38, 39

ST **moisture curable** silicone rubber adhesive; adhesion hydroxysilane cured silicone adhesive

IT Adhesives

(creep-resistant, polyacrylate-siloxanes or polyoxypropylene-siloxanes as)

IT Siloxanes and Silicones, uses and miscellaneous

RL: PREP (Preparation)

(polyoxypropylene-, adhesives, **moisture-curable**, manufacture of)

IT 109359-13-9P 109359-14-0P 109359-15-1P 109422-46-0P 109422-47-1P

109422-48-2P 109422-49-3P 109422-50-6P 109422-51-7P

109422-52-8P

RL: PREP (Preparation)

(adhesives, **moisture-curable**, manufacture of)

IT 109422-48-2P

RL: PREP (Preparation)

(adhesives, **moisture-curable**, manufacture of)

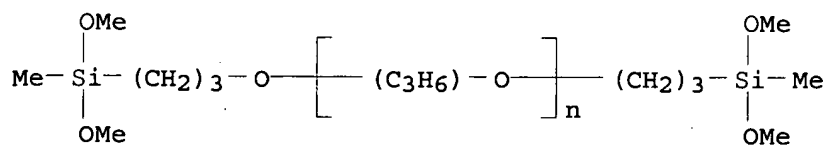
RN 109422-48-2 HCAPLUS

CN Trisiloxane, 1,3,5-trimethoxy-1,5-dimethyl-1,3,5-triphenyl-, polymer with α -[3-(dimethoxymethylsilyl)propyl]- ω -[3-(dimethoxymethylsilyl)propoxy]poly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

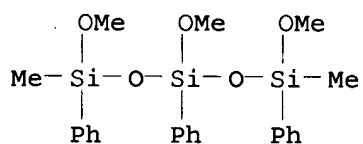
CRN 75009-88-0

CMF (C3 H6 O)_n C12 H30 O5 Si2
CCI IDS, PMS



CM 2

CRN 14254-24-1
CMF C23 H30 O5 Si3



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